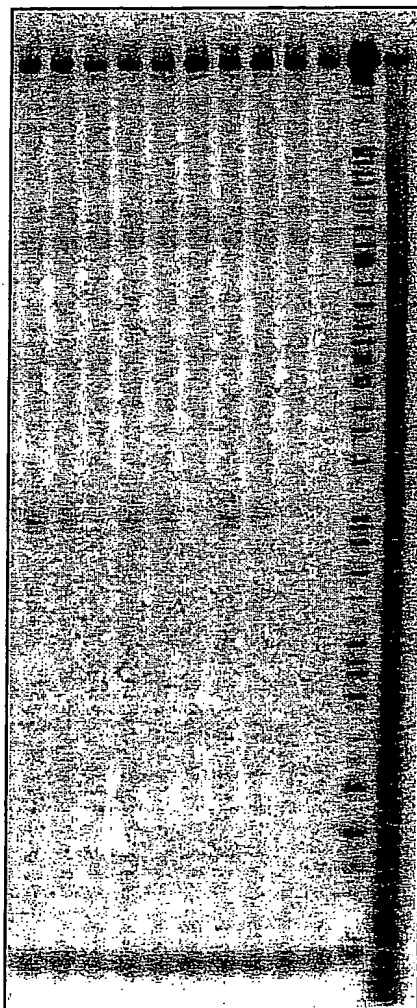


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Martinez et al. Figure 2

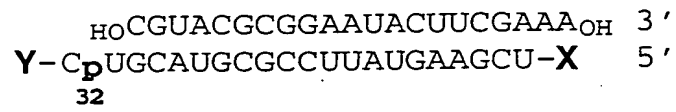
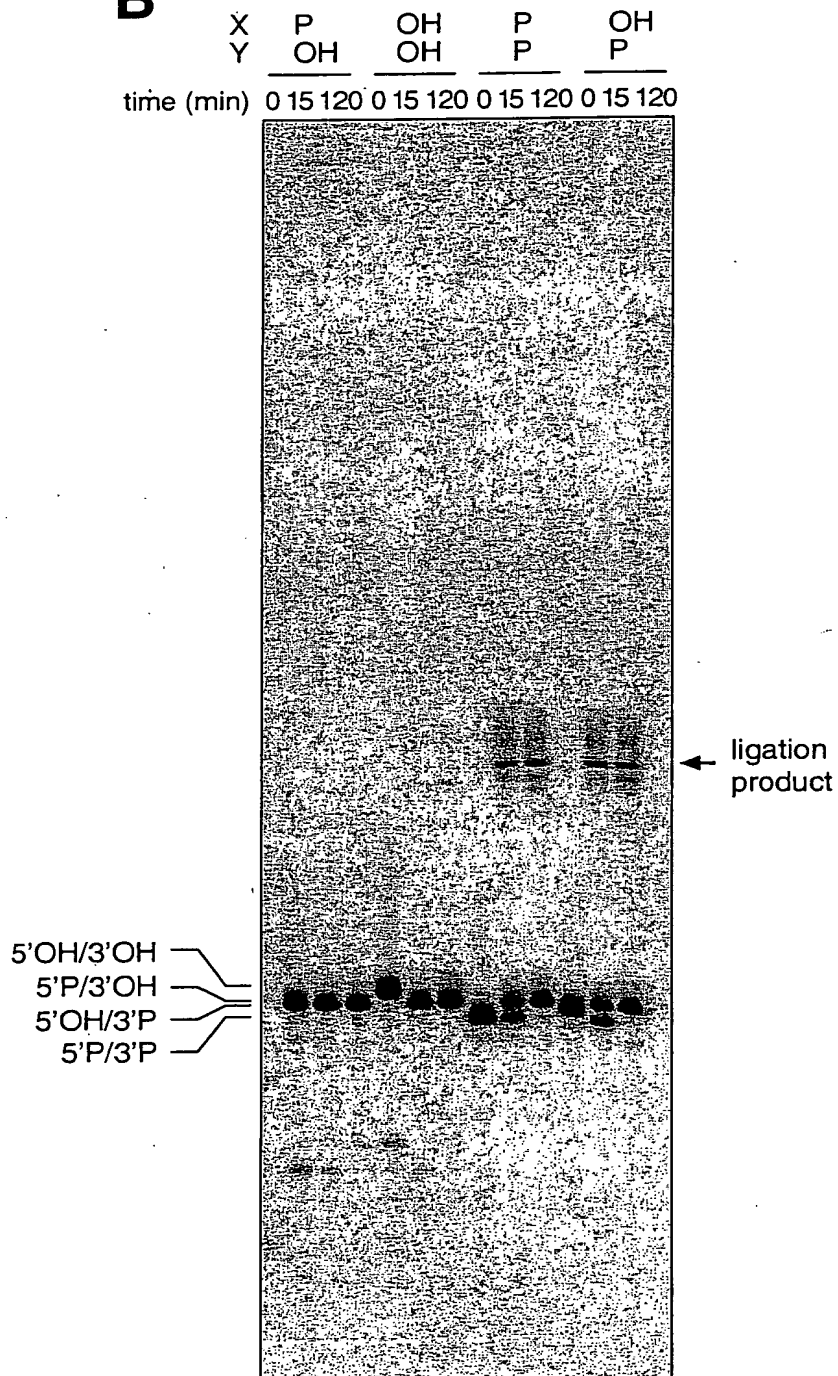
A**B**

s 3' 3' 3' - - - 5' 5' 5'
as 3' - 5' 3' - 5' 3' - 5' NCT1OH






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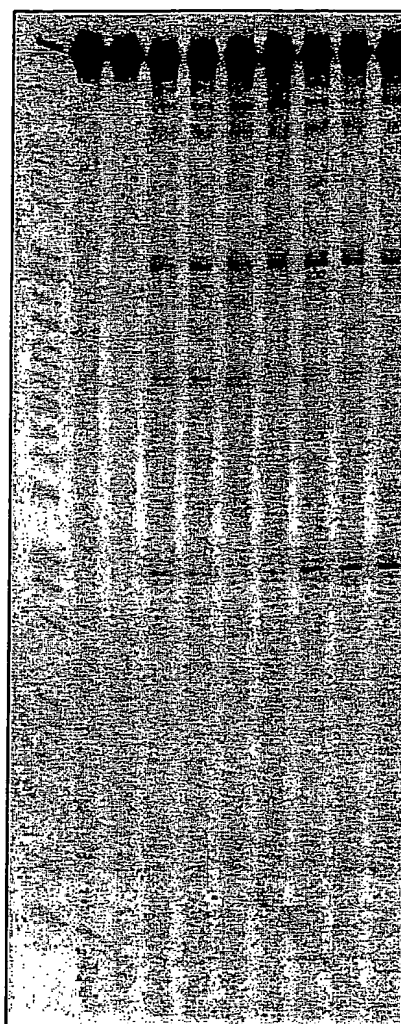
Martinez et al. Figure 3

A**B**

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Martinez et al. Figure 4

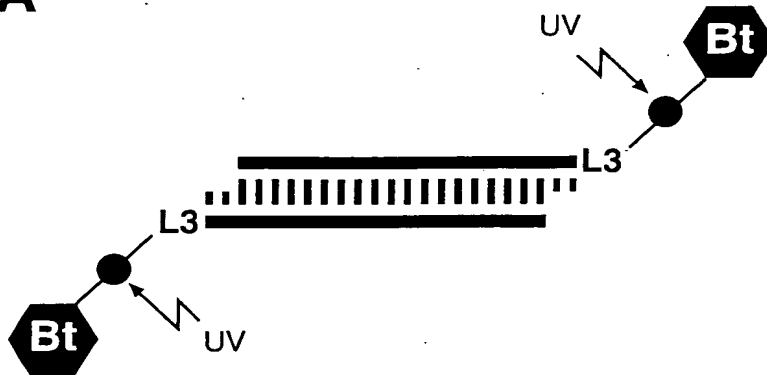
time point of competitor siRNA addition (min)		0			15						
											
siRNA duplexes	competitor (nM)	100	0	0	1000	10	1000				
	specific (nM)	0	100								
HeLa S100		T1	-	-	+	+	+	+	+	+	+



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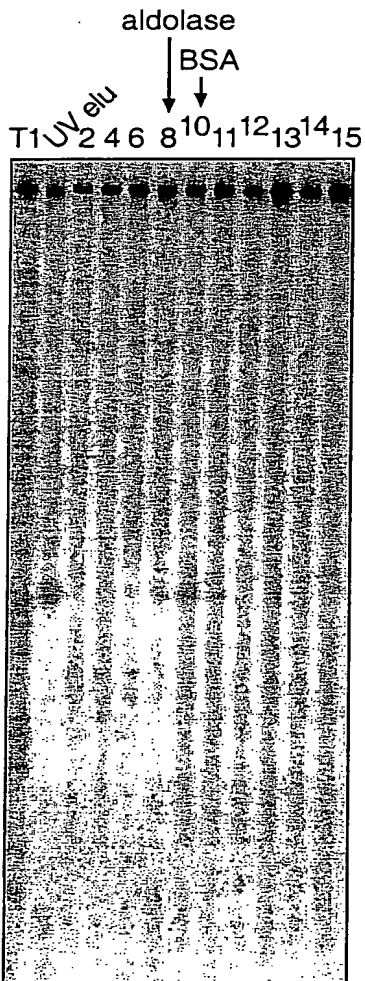
Martinez et al. Figure 5

A



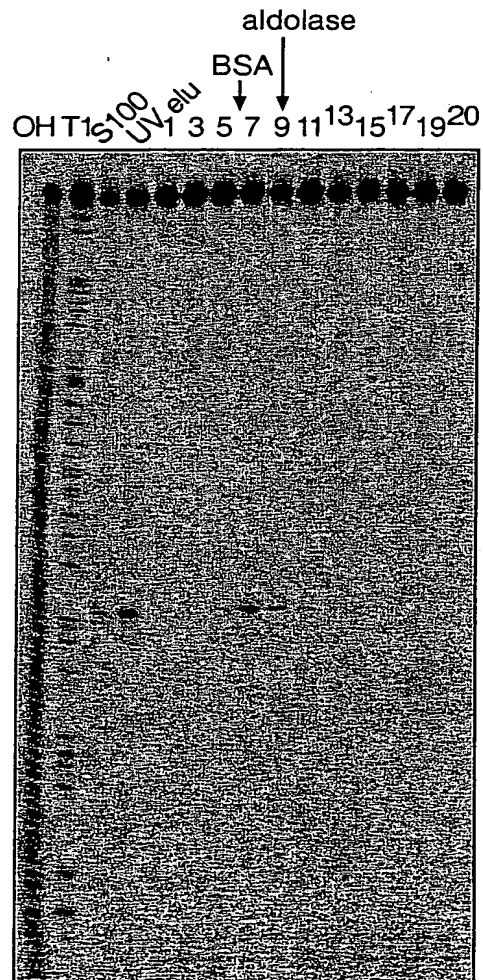
B

Superdex 200



C

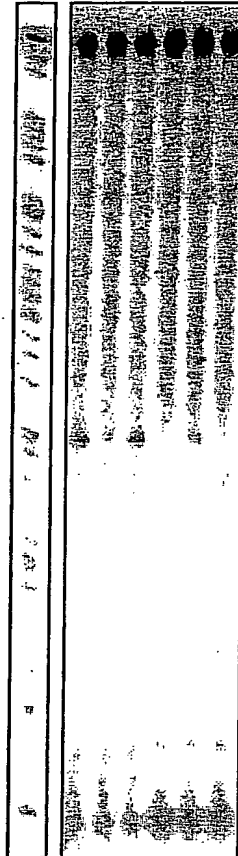
glycerol gradient 5-20%



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Martinez et al. Figure 6

		UV	flow-
		eluate	through
s-Biotin		+	+
as-Biotin	T1	+	+



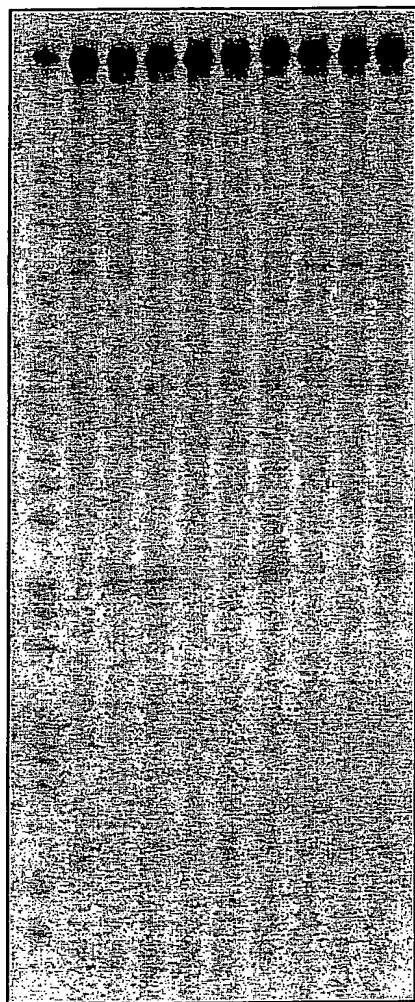
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Martinez et al. Figure 7

A

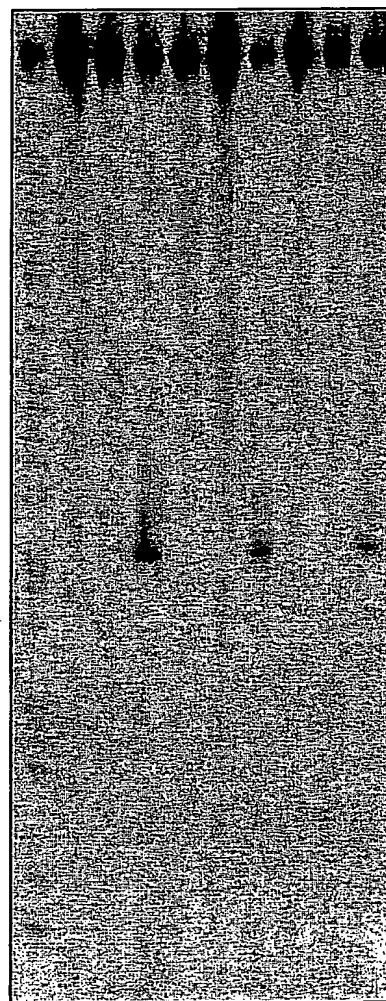
HeLa S100

c (nM)	100			10			1		
siRNA	T1	s	as ds	s	as ds	s	as ds	s	as ds

**B**

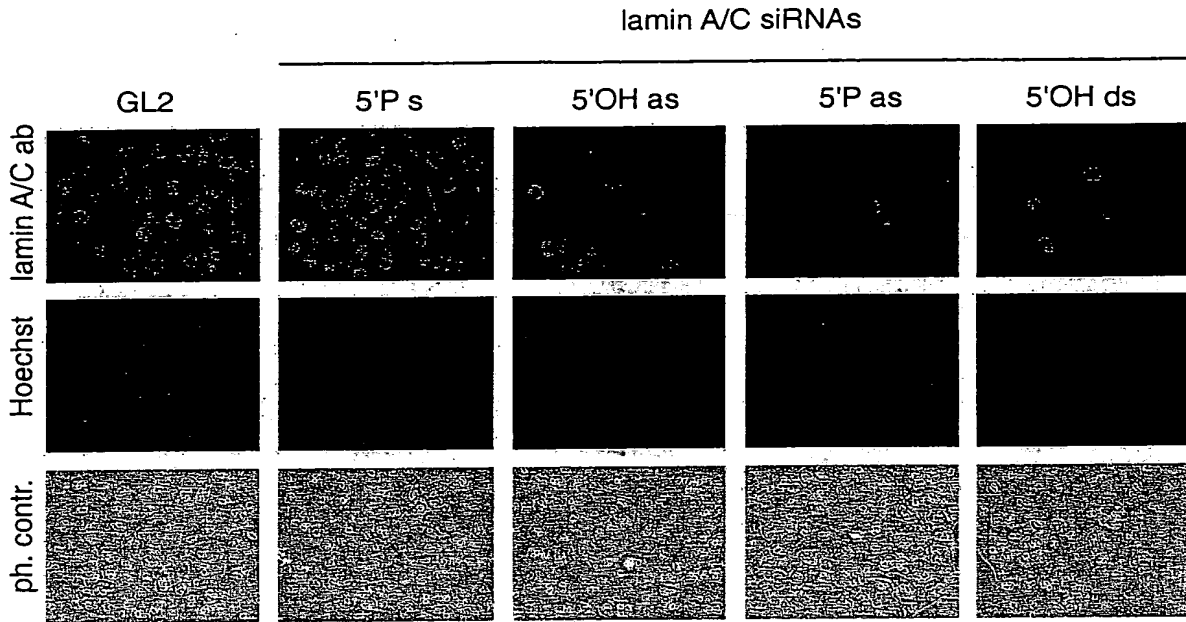
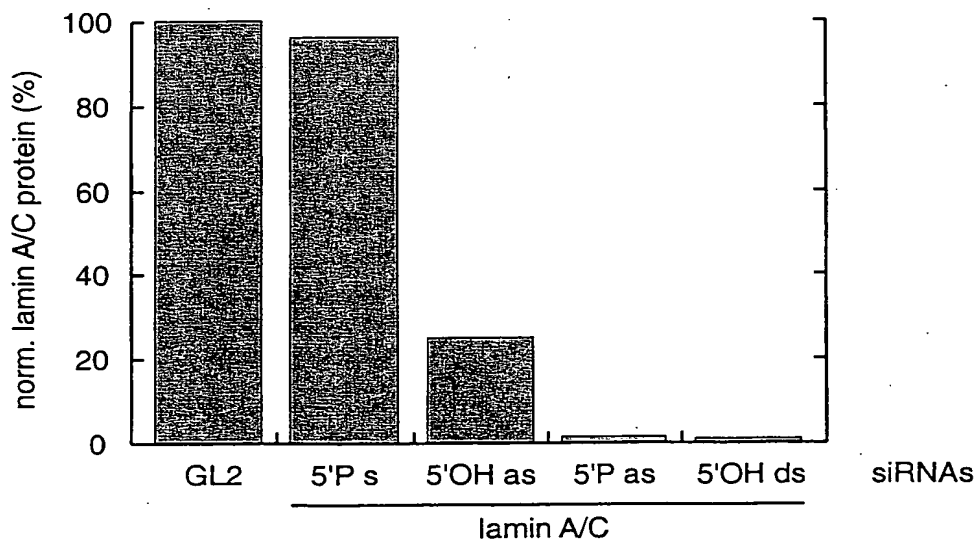
Drosophila embryo

c (nM)	100			10			1		
siRNA	T1	s	as ds	s	as ds	s	as ds	s	as ds



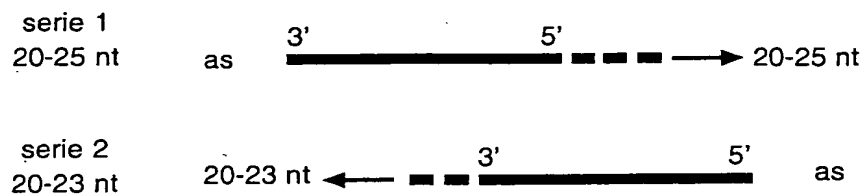
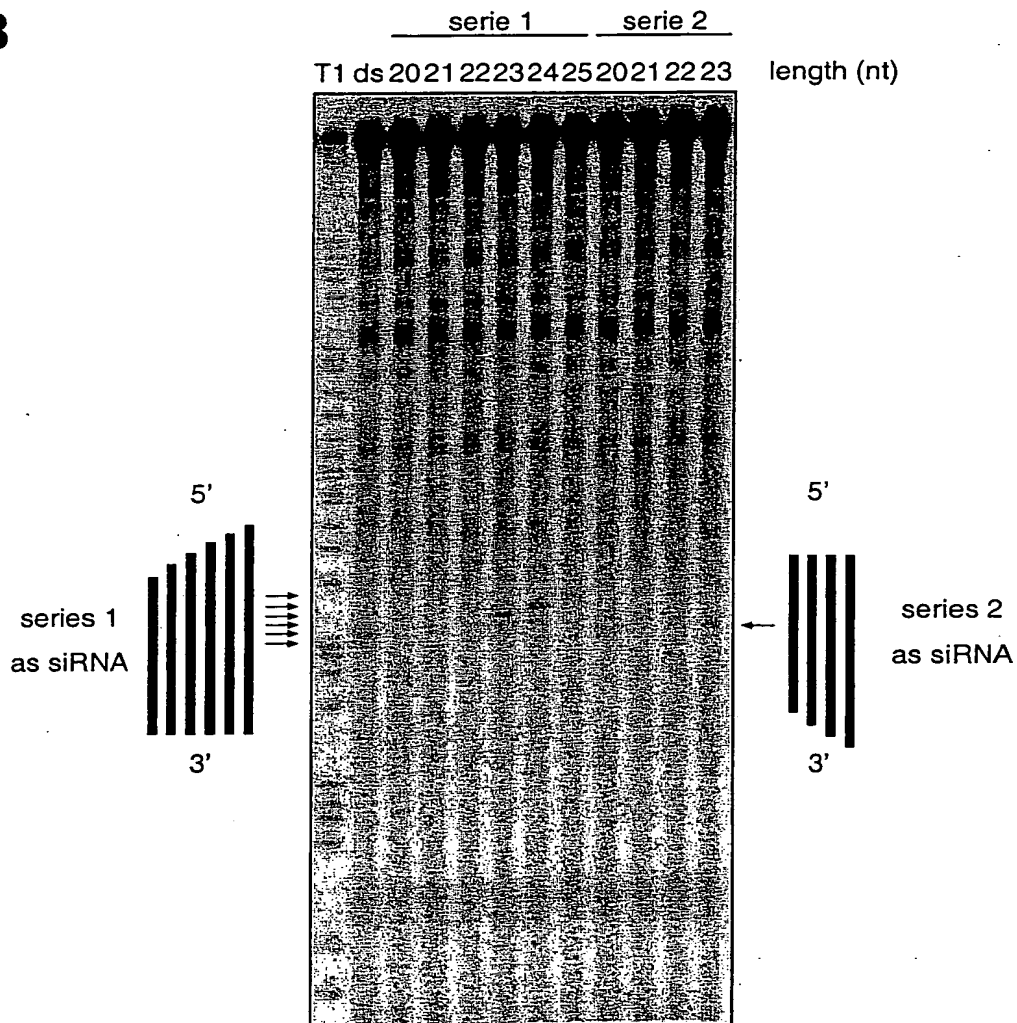
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Martinez et al. Figure 8

A**B**

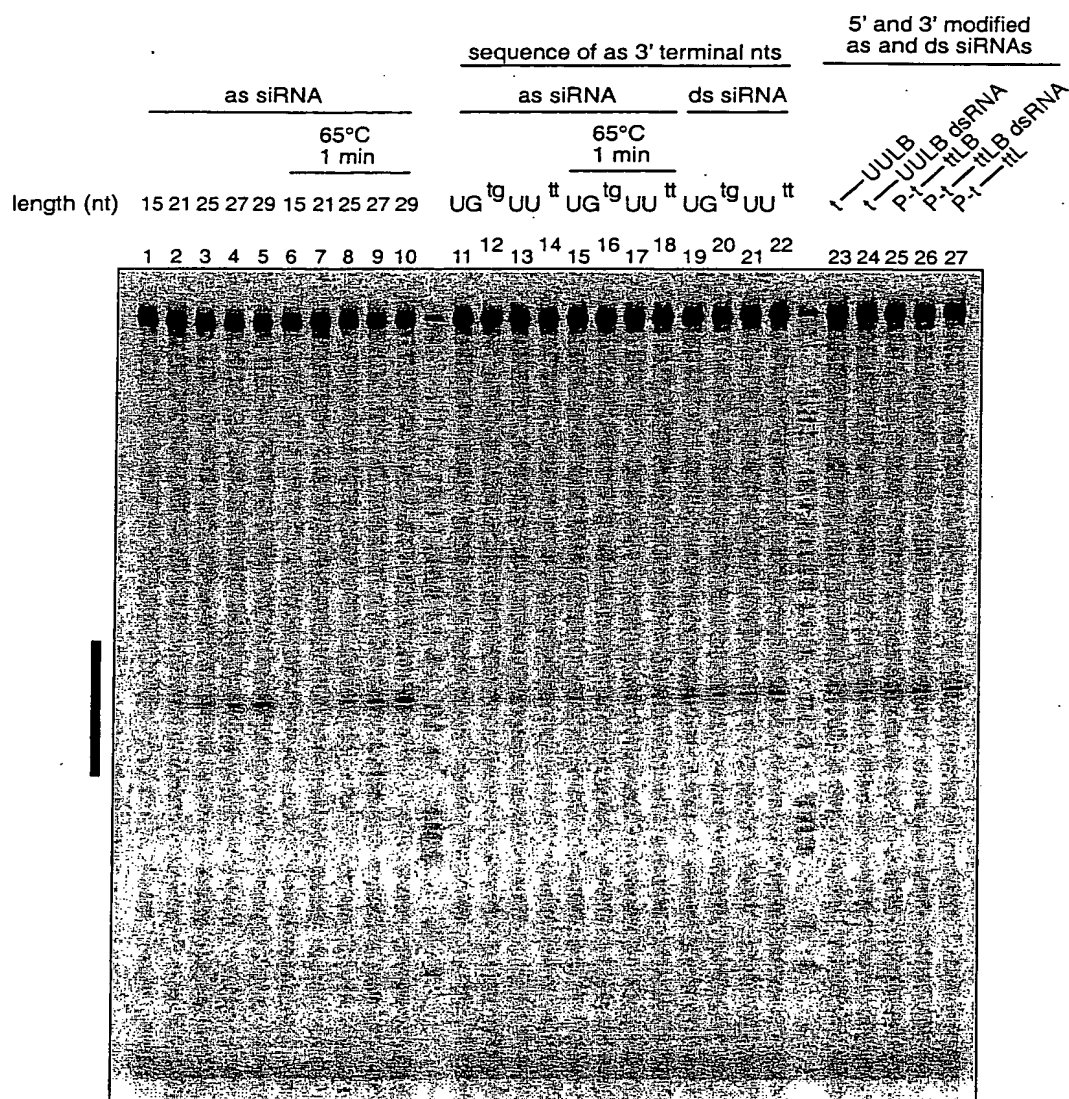
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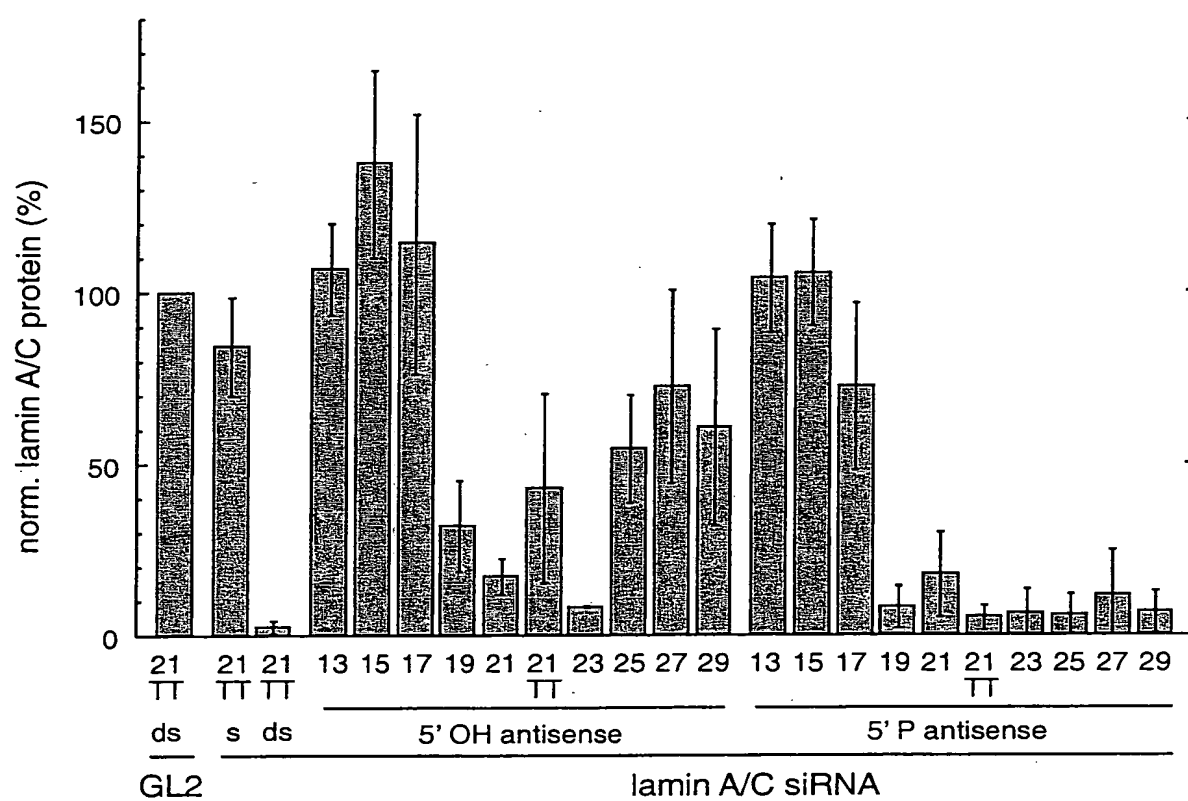
Martinez et al., Figure 9

A**B**

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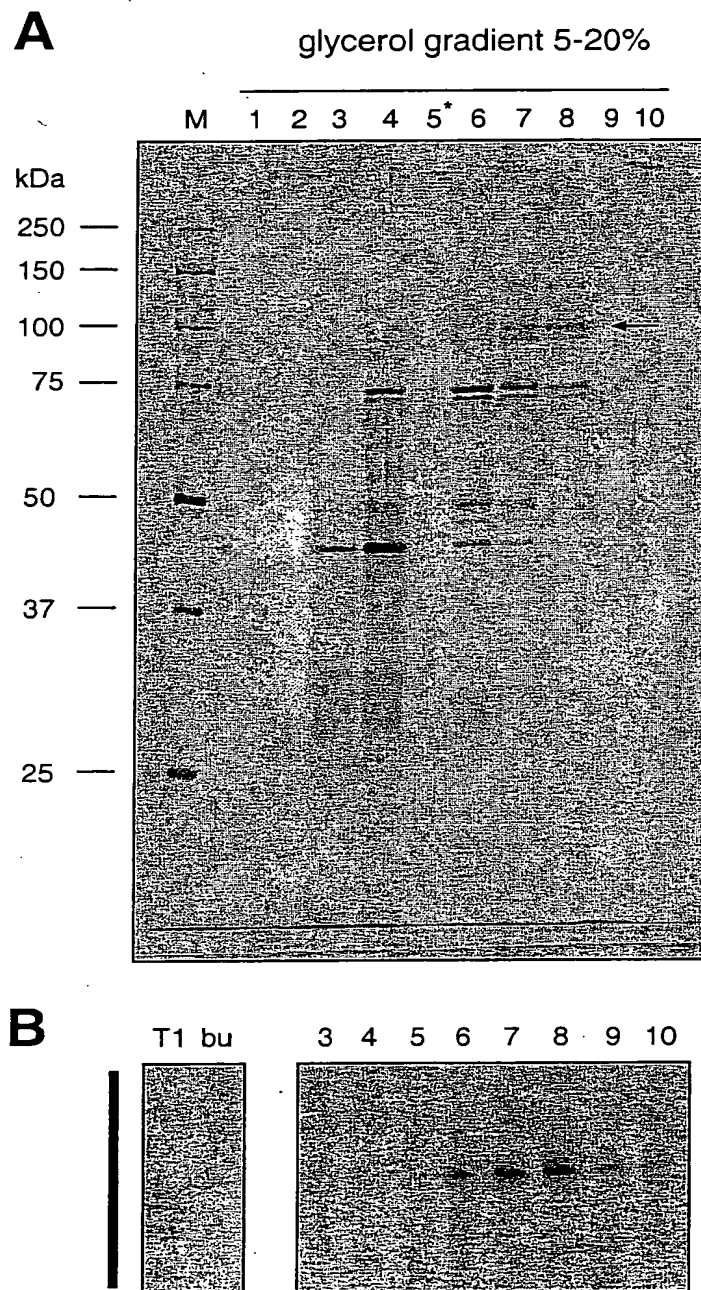
Martinez et al., Figure 10





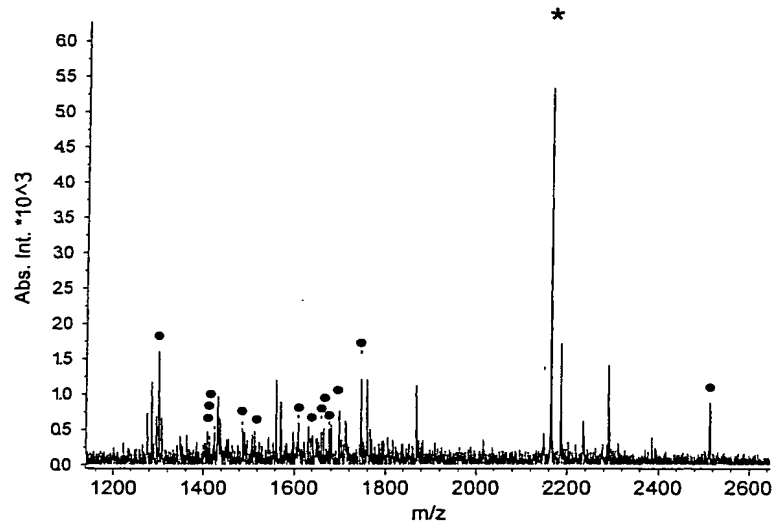
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Martinez et al. Figure 12



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Martinez et al. Figure 13 A

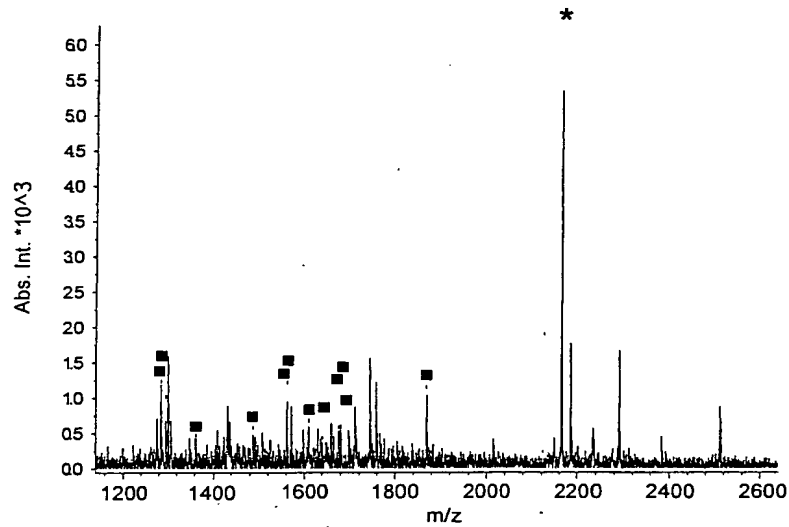
A

eukaryotic translation initiation factor 2C2

Observed	Mr (expt)	Mr (calc)	Delta	Position	Miss	Peptide
1299.67	1298.67	1298.73	-0.07	413 - 424	0	VLQPPSILYGGR
1402.64	1401.64	1401.74	-0.10	637 - 648	0	QEIIQDLAAMVR Oxidation(M)
1413.62	1412.61	1412.73	-0.12	169 - 180	1	HLPSMRYTFVGR
1423.60	1422.59	1422.71	-0.12	356 - 367	1	KLTDNQTSTMIR Oxidation(M)
1486.56	1485.56	1485.66	-0.10	495 - 507	0	YAQGADSVPEPMFR Oxidation(M)
1513.71	1512.70	1512.80	-0.10	112 - 125	1	DKVELEVTLPGECK
1608.67	1607.66	1607.69	-0.03	481 - 494	0	DAGMPIQGQPCFCK
1635.84	1634.83	1634.85	-0.02	85 - 98	1	TQIFGDRKPVFDGR
1658.85	1657.85	1657.84	0.01	368 - 382	2	ATARSAPDRQEEISK
1663.85	1662.85	1662.91	-0.06	698 - 711	1	DYQPGITFIVVQKR
1675.79	1674.78	1674.84	-0.06	372 - 385	2	SAPDRQEEISKLMR Oxidation(M)
1696.77	1695.76	1695.84	-0.08	323 - 336	0	YPHLPCLQVGQEQK
1743.75	1742.74	1742.77	-0.03	181 - 197	0	SFFTASEGCSNPLGGGR
2511.07	2510.06	2510.12	-0.05	816 - 838	1	YHLVDKEHDSAEGSHTSGQSNR

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Martinez et al. Figure 13 B

B

eukaryotic translation initiation factor 2C1

Observed	Mr (expt)	Mr (calc)	Delta	Position	Miss	Peptide
1283.66	1282.65	1282.74	-0.09	410 - 421	0	VLPAPILQYGGR
1294.65	1293.64	1293.67	-0.03	794 - 805	0	SVSIPAPAYYAR
1361.61	1360.60	1360.70	-0.10	553 - 564	0	TSPQTLSNLCLK
1486.56	1485.56	1485.66	-0.10	492 - 504	0	YAQGADSVPEMFR
1560.76	1559.75	1559.83	-0.08	97 - 110	0	NIYTVTALPIGNER
1561.76	1560.75	1560.78	-0.02	111 - 124	1	VDFEVTIPGEGKDR
1608.67	1607.66	1607.69	-0.03	478 - 491	0	DAGMPIQGQPCFCK
1640.74	1639.73	1639.82	-0.08	240 - 253	0	NIDEQPKPLTDSQR
1675.79	1674.78	1674.84	-0.06	369 - 382	2	SAPDROEEISRLMK
1679.86	1678.85	1678.90	-0.05	695 - 708	1	DYQPGITYIVVQKR
1696.77	1695.76	1695.84	-0.08	320 - 333	0	YPHLPCLQVGQEQK
1867.85	1866.85	1866.87	-0.02	178 - 194	0	SFFSPPEGYYHPLGGGR

C

eIF2C2 MGVTAKKPKAFAFRAPPPGQVYAFPPERPDEGTGGRTIKLQANFFMDIPKIDTYHTELDIPKCKPFRVNRREVEEMVQHFKQIFGDRKPVVDGGRKN 100
 eIF2C1 --MEAGESGAAAGATVPPGQGVVQAPRRPQIGTGGRTIKLQANFFMDIPKIDTYHTEVDIKPKCKPFRVNRREVEEMVQHFKQIFGDRKPVVDGGRKN 97
 1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100

eIF2C2 EYTAAPLPGIKRDEVELKVTTPGEGKDRIFKVSIKWSEVSNLNLHDLGGRUEVPPFTTQALDVMKHLISMRYTFVGRSFTTAREGSSHPLOGGGRVW 200
 eIF2C1 EYTVTALPGIKRDEVELKVTTPGEGKDRIFKVSIKWSEVSNLNLHDLGGRUEVPPFTTQALDVMKHLISMRYTFVGRSFTTAREGSSHPLOGGGRVW 197
110.....120.....130.....140.....150.....160.....170.....180.....190.....200

eIF2C2 FGFHQSVRPSLWMDMLNIDVSATAFYKAQFVIEFCEVLDLKKIEEQKPLTDSQRVYTKKIKGLKVEYTHCGQMKKRYRVCHVTRPASHQTFFLQGE 300
 eIF2C1 FGFHQSVRPSLWMDMLNIDVSATAFYKAQFVIEFCEVLDLKKIEEQKPLTDSQRVYTKKIKGLKVEYTHCGQMKKRYRVCHVTRPASHQTFFLQGE 297
210.....220.....230.....240.....250.....260.....270.....280.....290.....300

eIF2C2 SGQTVECTVAQYFADKRLQLRYPHLPCLQVGGQEKHTYLPLEVCNIVAGQRCIKLTDNQSTMIKATARSAPDRQKEISLMMKASGNTDPTVDFGI 400
 eIF2C1 SGQTVECTVAQYFADKRLQLRYPHLPCLQVGGQEKHTYLPLEVCNIVAGQRCIKLTDNQSTMIKATARSAPDRQKEISLMMKASGNTDPTVDFGI 397
310.....320.....330.....340.....350.....360.....370.....380.....390.....400

eIF2C2 EYKDEMTDVTGRVLQPSLHYGGRHAIATFPGQVWDMRQKQFVGGIEIKVWAIACFAPQKCKEVLKKEFTDQLRKISDAGMFIQQQPCCKYAQGAD 500
 eIF2C1 EYKDEMTDVTGRVLQPSLHYGGRHAIATFPGQVWDMRQKQFVGGIEIKVWAIACFAPQKCKEVLKKEFTDQLRKISDAGMFIQQQPCCKYAQGAD 497
410.....420.....430.....440.....450.....460.....470.....480.....490.....500

eIF2C2 SVEPMFRHLKNTYSGQLQLRVILPGKTFVYAKVRVGDTELGMAQCQVQKRVQETPQTLSENLCLEINVLGGNNILDPQRSAVTVQQPFVFLGADV 600
 eIF2C1 SVEPMFRHLKNTYSGQLQLRVILPGKTFVYAKVRVGDTELGMAQCQVQKRVQETPQTLSENLCLEINVLGGNNILDPQRSAVTVQQPFVFLGADV 597
510.....520.....530.....540.....550.....560.....570.....580.....590.....600

eIF2C2 HPPAGDGKKPSINAVVGSMDAHPSRYCATVRVQERQEIIDLSYVRELLIQYKSTRFKPTRIIFYRDGVTEGQFQOLHTELLAIRACIKLEKDYQ 700
 eIF2C1 HPPAGDGKKPSINAVVGSMDAHPSRYCATVRVQERQEIIDLSYVRELLIQYKSTRFKPTRIIFYRDGVTEGQFQOLHTELLAIRACIKLEKDYQ 697
610.....620.....630.....640.....650.....660.....670.....680.....690.....700

eIF2C2 PGITLIVVQKRRHTRLFCADKHERVCKSGNIPAGTTVDTHITHTFDFYLCSHAGIQGTSRPSHYEVLWDDNRFSEDELQILTYQLCHTYVACTRSVSI 800
 eIF2C1 PGITLIVVQKRRHTRLFCADKHERVCKSGNIPAGTTVDTHITHTFDFYLCSHAGIQGTSRPSHYEVLWDDNRFSEDELQILTYQLCHTYVACTRSVSI 797
710.....720.....730.....740.....750.....760.....770.....780.....790.....800

eIF2C2 PAPATYALVAFRARYHLVDKEDSDSGSHSGQSNQRDQALAKAVQVHQDTLRTMYFA 860
 eIF2C1 PAPATYALVAFRARYHLVDKEDSDSGSHSGQSNQRDQALAKAVQVHQDTLRTMYFA 857
810.....820.....830.....840.....850.....860

■ eIF2C2 peptides
 ■ oxidized

■ eIF2C1 peptides
 ■ oxidized

— PAZ domain
 — PIWI domain

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Martinez et al. Figure 14

>eIF2C1, predicted protein sequence

MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIKPD
 KCPRRVNREVVEYVMVQHFKPQIFGDRKPVYDGGKKNITVTALPIGNERVDFEVTIPGEGKDR
 IFKVSISKWLAIVSWRMLHEALVSGQIPVPLESVQALDVAMRHLASMRYPVGRSFFSPPEGY
 YHPLGGGREVWFGFHQSVRPAMWKMLNIDVSATAFYKAQPVIEFMCEVLDIRNIDEQPKPL
 TDSQRVRFTKEIKGLKVEVTHCGQMCRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQYF
 KQKYNLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTNDQSTMIKATARSAPD
 RQEEISRLMKNASYNLDPYIQEFGIKVKDDMTVEVTGRVLPAPILQYGGRNRAIATPNQGVWD
 MRGKQFYNGIEIKVWAIACFAPQKQCREEVLKFNFTDQLRKISKDAGMPIQGQPCFCKYAQGA
 DSVEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPTL
 SNLCLKINVKLGGINNILVPHQRSVAVFQQPVIFLGADVTHPPAGDGKKPSITAVVGSMDAHP
 SRYCATVRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYEL
 LAIRDACIKLEKDYQPGITYIVVQKRHHTRLFCADKNERIGKSGNIPAGTTVDTNITHPFEF
 DFYLCSHAGIQGTSRPSHYVWLWDDNRFADDELQILTYQLCHTYVRCTRSVSIAPAPYYARL
 VAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYFA

>eIF2C2, predicted protein sequence

MGVLSAIPALAPPAPPPPIQGYAFKPPRPDPFGTSGRTIKLQANFFEMDIPKIDIYHYELDI
 KPEKCPRRVNREIVEHMQHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEG
 KDRIFKVSISKWVSLQALHDALSGRLPSVFPFETIQALDVVMRHLPSMRYPVGRSFFTAS
 EGCSNPLGGGREVWFGFHQSVRPSLWKMLNIDVSATAFYKAQPVIEFVCEVLDFKSIIEEQQ
 KPLTDSQRVKFTKEIKGLKVEITHCGQMCRKYRVCNVTRRPASHQTFPLQLESGQTVECTVA
 QYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTNDQSTMIRATARS
 APDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLPQPSILYGGRNKAIATPVQG
 VWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTEQLRKISRDAAGMPIQGQPCFCKYA
 QGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLGMATQCVQMKNVQRTTP
 QTLNCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMD
 AHPNRYCATVRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLH
 HELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCADKNERVGKSGNIPAGTTVDTKITHP
 TEFDYLCSHAGIQGTSRPSHYVWLWDDNRFSSDELQILTYQLCHTYVRCTRSVSIAPAPYY
 AHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHPQALAKAVQVHQDTLRTMYFA

>eIF2C3, predicted protein sequence

SRSRVPVPGPGAAAAAPCAPASPRRHPSANIPEIKRYAAAAAAGPGAGGAGDRGEAAPAA
 AMEALGPGPPASLFQPPRRPGLGTGKPIRLLANHFQVQIPKIDVYHYDVIDKPEKRRRVN
 REVVDTMVRHFQMIFGDRQPGYDGKRNMYTAHPLPIGRDRVDMEVTLPGEGKDQTFKVSQ
 WVSVSLQLLLEALAGHLNEVPDDSVQALDVITRHLPSMRYPVGRSFFSPPEGYYHPLGGG
 REVWFGFHQSVRPAMWNMLNIDVSATAFYRAQPIIEFMCEVLDIQNINEQTKPLTDSQRVK
 FTKEIRGLKVEVTHCGQMCRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQYFKQKYSQ
 LKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTNDQSTMIKATARSAPDRQEEISR
 LVKSNSMVGPPDPYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTVATPNQGVWDMRGKQ
 FYAGIEIKVWAVACFAPQKQCREDLKSFDTQLRKISKDAGMPIQGQPCFCKYAQGADSVEP
 MFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPTLSNLCL
 KINAKLGGINNVLVPHQRPSVFPQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDGHPSTRYCA
 TVRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIYYRGGVSEGQMKQV
 AWPELIAIRKACISLEEDYRPGITYIVVQKRHHTRLFCADKTERVGKSGNVPAGTTVDSTIT
 HPSEFDYLCSHAGIQGTSRPSHYQVLWDDNCFADDELQLLTYQLCHTYVRCTRSVSIAPAPA
 YYARLVAFRARYHLVDKDHDHSAEGSHVSGQSNGRDPQALAKAVQIHHDTHQHTMYFA

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Martinez et al. Figure 14

>eIF2C4, predicted protein sequence

AGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREV
DSMVQHFKVTFIFGDRRPVYDGKRSLYTANPLPVATTGVLDLDTLPGEGGKDRPFKVSIFKVS
RVSWHLLHEVLTGRTLPEPLELDKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDH
PLGGGREVWFGFHQSVRPAMWKMLNIDVSATAFYKAQPVIQFMCEVLDIHNIDEQPRPLTD
SHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQYFRE
KYTLQLKYPHLPCLQVGQEQKHTYLPLEVNCIVAGQRCIKKLTNDQSTMIKATARSAPDRQ
EEISRLVRSANYETDPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGNRNTVATPSHGVWDMR
GKQFHTGVEIKMWAIACFATQRQCREEILKGFTDQLRKISKDAGMPIQGQPCFCKYAQGADS
VEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVIKTSPQTLN
LCLKINVKLGGINNILVPHQRPSVFQQPVIIFLGADVTHPPAGDGKKPSIAAVVGSMDAHP
YCATVRVQRPRQEI IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLA
IREACISLEKDYQPGITYIVVQKRHHTRLCADRTERVGRSGNI PAGTTVDTDITHPYEFD
YLC SHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTYVRCTRSVSIPAPAYYAH
LVA FRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA

>HILI, predicted protein sequence

ISSGDAGSTFMERGVKNQDFMDLSICTREKLAHVRNCKTGSSGIPVKLVTNLFNLDFFQDW
QLYQYHVITYIPDLASRLRIALLYSHSELSNKAFAFDGAILFLSQKLEEKVTELSSETQRGE
TIKMTITLKRPLSSSPVCIQVFNIIFRKILKKLSMYQIGRNFYNPSEPMEIPQHKLSLWGP
FAISVSYFERKLLFSADVSYKVLARNETVLEFMTALCQRTGLSCFTQTCEKQLIGLIVLTRYN
NRTYSIDDIWVSVKPTHFTFQKRDGTEITYVDYKQYDITVSDLNQPMVLVSLKKKRNDNSE
AQLAHLIPELCLTGLTDQATSDFQLMKAVAETRLSPSGRQQLARLVNDIQRNTNARFEL
ETWGLHFGSQISLTGRIVPSEKILMQDHICQPVSAADWSKDIRTCKILNAQSLNTWLIILCSD
RTEYVAESFLNCLRRVAGSMGFNVMCILPSNQKTYYDSIKKYLSSDCPVPSQCVLARTLNKQ
GMMMSIATKIAMQMTCKLGGELWAVEIPLKSLMVVGIDVCKDALSKDVMVVGCVASVNPRIT
RWF SRCILQRTMTDVA DCLKVFMGTALNKWKYNHDL PARIIVYRAGVGDGQLKTLIEYEVP
QLLSSVAESSSNTSSRLSVIVVRKKCMRPF FTEMNRTVQNPPLGTVDSEATRNEWQYDFYL
ISQVACRGTVSPTYYNVIYDDNGLKPDHMQRLTFKLCHLYYNWPGIVSVAPACQYAHKLTF
VAQSIHKEPSLELANHLFYL

>HIWI, predicted protein sequence

MTGRARARARGRARGQETAQLVGSTASQQPGYIQPRPQPPPAEGELFGRGRQRGTAGGTAKS
QGLQISAGFQELSLAERGRRRDFHDLGVNTRQNL DHVKESKTGSSGIIIVRLSTNHFRLT
SR PQWALYQYHIDYNPLMEARRLSALLFQHEDLIGKCHAFDGTILFLPKRLQQKVTEVFSKTR
NGEDVRIITITLTNELPPTSPTCLQFYNIIFRRLKIMNLQQIGRNYNPNPDIDIPSHRLVI
WPGFTTSILQYENSIMLCTDVSHKVLRSSETVLD FMFNFYHQTEEHKFQEQVSKELIGLVVLT
KYNNTYRVDIDWDQNPKSTFKKADGSEVSFLEYRKQYNQEI TDLKQPVLVSQPKRRRG
P GGTLPGPAMLIPELCYLTGLTDKMRNDFNVMKDLAVHTRLTPEQRQREVGRLLIDYIHKNDV
QREL RDWGLSFDSNLLSFSGRILQTEKIHQGGKTFDYNPQFADWSKETRGAPLISVKPLDNW
LLIYTRRNYEAA NSLIQNLFKVT PAMGMQMRKAIMIEVDDRTEAYLRVLQQKV TADTQIVVC
LLSSNRKDKYDAIKKYLCTDCPTPSQCVVARTLGKQQTVMATKIALQMNCKMGGELWRVD
IPLKLVMIVGIDCYHDMTAGRRSIAGFVASINEGMTRWFSRCIFQDRGQELVDGLKVCLQAA
LRAWNSCNEYMP SRIIVYRDGVGDGQLKTLVNYEVPQFLDCLKSIGRGYNPRLTVIVVKRV
NTRFFAQSGGRLQNPLPGTVIDVEVTRPEWYDFFIVSQAVRSGSVSPHTYNVIYDNSGLKPD
HIQRLTYKLCHIIYNWPGVIRVPAPCQYAHKLAFLVQSIHREP NLSLSNRLYYL

aIF2C3	-----	100
aIF2C4	-----	34
aIF2C1	-----	45
aIF2C2	-----	48
HILI	-----	24
HWI	-----	89
ruler	1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100	
aIF2C3	-----	191
aIF2C4	-----	126
aIF2C1	-----	136
aIF2C2	-----	139
HILI	-----	124
HWI	-----	189
ruler	110.....120.....130.....140.....150.....160.....170.....180.....190.....200	
aIF2C3	-----	282
aIF2C4	-----	225
aIF2C1	-----	227
aIF2C2	-----	230
HILI	-----	213
HWI	-----	278
ruler	210.....220.....230.....240.....250.....260.....270.....280.....290.....300	
aIF2C3	-----	382
aIF2C4	-----	325
aIF2C1	-----	327
aIF2C2	-----	330
HILI	-----	298
HWI	-----	363
ruler	310.....320.....330.....340.....350.....360.....370.....380.....390.....400	
aIF2C3	-----	474
aIF2C4	-----	413
aIF2C1	-----	417
aIF2C2	-----	420
HILI	-----	396
HWI	-----	463
ruler	410.....420.....430.....440.....450.....460.....470.....480.....490.....500	
aIF2C3	-----	573
aIF2C4	-----	514
aIF2C1	-----	516
aIF2C2	-----	519
HILI	-----	459
HWI	-----	557
ruler	510.....520.....530.....540.....550.....560.....570.....580.....590.....600	
aIF2C3	-----	671
aIF2C4	-----	612
aIF2C1	-----	614
aIF2C2	-----	617
HILI	-----	551
HWI	-----	649
ruler	610.....620.....630.....640.....650.....660.....670.....680.....690.....700	
aIF2C3	-----	771
aIF2C4	-----	702
aIF2C1	-----	704
aIF2C2	-----	707
HILI	-----	641
HWI	-----	739
ruler	710.....720.....730.....740.....750.....760.....770.....780.....790.....800	
aIF2C3	-----	870
aIF2C4	-----	801
aIF2C1	-----	803
aIF2C2	-----	806
HILI	-----	737
HWI	-----	834
ruler	810.....820.....830.....840.....850.....860.....870.....880.....890.....900	
aIF2C3	-----	924
aIF2C4	-----	855
aIF2C1	-----	857
aIF2C2	-----	860
HILI	-----	764
HWI	-----	861
ruler	910.....920.....930.....940.....950.....	

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Martinez et al. Figure 16

>eIF2C1, cDNA sequence of predicted ORF

ATGGAAGCGGGACCCCTCGGGAGCAGCTGCGGGCGCTTACCTGCCCCCCTGCAGCAGGTGTT
 CCAGGCACCTCGCCGGCCTGGCATTGGCACTGTGGGAAACCAATCAAGCTCCTGGCCAATT
 ACTTTGAGGTGGACATCCCTAAGATCGACGTGTACCACTACGAGGTGGACATCAAGCCGGAT
 AAGTGTCCCCGTAGAGTCAACCGGGAAGTGGTGAATACATGGTCCAGCATTTCAAGCCTCA
 GATCTTTGGTGATCGCAAGCCTGTGTATGATGGAAGAAGAATTTACACTGTCACAGCAC
 TGCCCATTTGGCAACGAACGGGTGCGACTTTGAGGTGACAATCCCTGGGGAAGGGAAGGATCGA
 ATCTTTAAGGTCTCCATCAAGTGGCTAGCCATTGTGAGCTGGCGAATGCTGCATGAGGCCCT
 GGTCAGCGGCCAGATCCCTGTTCCCTTGGAGTCTGTGCAAGCCCTGGATGTGGCCATGAGGC
 AACTGGCATCCATGAGGTACACCCCTGTGGGCCGCTCCTTCTTCTACCGCCTGAGGGCTAC
 TACCACCCGCTGGGGGGTGGGCGCGAGGTCTGGTTCGGCTTTTACCAGTCTGTGCGCCCTGC
 CATGTGGAAGATGATGCTCAACATTGATGTCTCAGCCACTGCCTTTTATAAGGCACAGCCAG
 TGATTGAGTTCATGTGTGAGGTGCTGGACATCAGGAACATAGATGAGCAGCCCAAGCCCCCTC
 ACGGACTCTCAGCGCGTTTCGCTTCACCAAGGAGATCAAGGGCCTGAAGGTGGAAGTCACCCA
 CTGTGGACAGATGAAGAGGAAGTACCGCGTGTGTAATGTTACCCGTCGCCCTGCTAGCCATC
 AGACATTCCCCTTACAGCTGGAGAGTGGACAGACTGTGGAGTGCACAGTGGCACAGTATTTTC
 AAGCAGAAATATAACCTTCAGTCAAGTATCCCCATCTGCCCTGCCTACAAGTTGGCCAGGA
 ACAAAGCATACCTACCTTCCCTAGAGGTCTGTAACATTGTGGCTGGGCAGCGCTGTATTA
 AAAAGCTGACCGACAACCAGACCTCGACCATGATAAAGGCCACAGCTAGATCCGCTCCAGAC
 AGACAGGAGGAGATCAGTCGCCTGATGAAGAATGCCAGCTACAACCTAGATCCCTACATCCA
 GGAATTTGGGATCAAAGTGAAGGATGACATGACGGAGGTGACAGGGCGAGTGTGCTGCCGGCGC
 CCATCTTGCAGTACGGCGGCGCGGAACCGGGCCATTGCCACACCCAATCAGGGTGTCTGGGAC
 ATGCGGGGGGAAACAGTTCTACAATGGGATTGAGATCAAAGTCTGGGGCCATCGCCTGCTTCGC
 ACCCCAAAAACAGTGTGAGAAGAGGTGCTCAAGAACTTCACAGACCAGCTGCGGAAGATTT
 CCAAGGATGCGGGGATGCCTATCCAGGGTCAACCTTGTTCGCAAAATATGCACAGGGGGCA
 GACAGCGTGGAGCCTATGTTCCGGCATCTCAAGAACACCTACTCAGGGCTGCAGTCAATTAT
 TGTCATCCTGCCAGGGAAGACGCCGGTGTATGCTGAGGTGAAACGTGTCGGAGATACACTCT
 TGGAATGGCTACGCAGTGTGTGAGGTGAAGAACGTGGTCAAGACCTCACCTCAGACTCTG
 TCCAACCTCTGCCTCAAGATCAATGTCAAACCTTGGTGGCATTAAACAACATCCTAGTCCACA
 CCAGCGCTCTGCCGTTTTTCAACAGCCAGTGATATTCTTGGGAGCAGATGTTACACACCCCC
 CAGCAGGGGATGGGAAAAAACCTTCTATCACAGCAGTGGTAGGCAGTATGGATGCCCACCCC
 AGCCGATACTGTGCTACTGTGCGGGTACAGCGACCACGGCAAGAGATCATTTGAAGACTTTGTC
 CTACATGGTGCCTGAGCTCCTCATCCAATTCTACAAGTCCACCCGTTTCAAGCCTACCCGCA
 TCATCTTCTACCGAGATGGGGTGCCTGAAGGCCAGCTACCCAGATACTCCACTATGAGCTA
 CTGGCCATTTCGTGATGCCTGCATCAAACCTGGAAGGACTACCAGCCTGGGATCACTTATAT
 TGTGGTGCAGAAACGCCATCACACCCGCCTTTTCTGTGCTGACAAGAATGAGCGAATTGGGA
 AGAGTGGTAACATCCCAGCTGGGACCACAGTGGACACCAACATCACCCACCCATTGAGTTT
 GACTTCTATCTGTGCAGCCACGCAGGCATCCAGGGCACCAGCCGACCATCCCATTTACTATGT
 TCTTTGGGATGACAACCGTTTACAGCAGATGAGCTCCAGATCCTGACGTACCAGCTGTGCC
 AACTTACGTACGATGCACACGCTCTGTCTCTATCCCAGCACCTGCCTACTATGCCCGCCTG
 GTGGCTTTCGGGGCACGATAACACCTGGTGGACAAGGAGCATGACAGTGGAGAGGGGAGCCA
 CATATCGGGGCAGAGCAATGGGCGGGACCCCCAGGCCCTGGCCAAAGCCGTGCAGGTTCACC
 AGGATACTCTGCGCACCATGTACTTCGCT

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Martinez et al. Figure 16

>eIF2C2, cDNA sequence of predicted ORF
ATGGGTGTTCTCTCTGCCATTCCCGCACTTGCACCTCCTGCGCCGCCGCCCCCATCCAAGG
ATATGCCTTCAAGCCTCCACCTAGACCCGACTTTGGGACCTCCGGGAGAACAAATCAAATTAC
AGGCCAATTTCTTCGAAATGGACATCCCCAAAATTGACATCTATCATTATGAATTGGATATC
AAGCCAGAGAAGTGCCCGAGGAGAGTTAACAGGGAAATCGTGGAACACATGGTCCAGCACTT
TAAACACAGATCTTTGGGGATCGGAAGCCCGTGTGTTGACGGCAGGAAGAATCTATACACAG
CCATGCCCCCTTCCGATTGGGAGGGACAAGGTGGAGCTGGAGGTACGCTGCCAGGAGAAGGC
AAGGATCGCATCTTCAAGGTGTCCATCAAGTGGGTGTCTGCGTGAGCTTGCAGGCGTTTACA
CGATGCACCTTTCAGGGCGGCTGCCCAGCGTCCCTTTTGGAGACGATCCAGGCCCTGGACGTGG
TCATGAGGCACTTGCCATCCATGAGGTACACCCCGTGGGCGGCTCCTTCTTACCAGCGTCC
GAAGGCTGCTCTAACCCTCTTGGCGGGGGCCGAGAAGTGTGGTTTGGCTTCCATCAGTCCGT
CCGGCCTTCTCTCTGGAAATGATGCTGAATATTGATGTGTGTCAGCAACAGCGTTTACAAGG
CACAGCCAGTAATCGAGTTTGTGTTGTGAAGTTTGGATTTTAAAAGTATTGAAGAACAACAA
AAACCTCTGACAGATTCCCAAAGGGTAAAGTTTACCAAAGAAATTAAAGGTCTAAAGGTGGA
GATAACGCACTGTGGGCAGATGAAGAGGAAGTACCGTGTCTGCAATGTGACCCGGCGGCCCCG
CCAGTCACCAAACATTCCCGCTGCAGCAGGAGAGCGGGCAGACGGTGGAGTGCACGGTGGCC
CAGTATTTCAAGGACAGGCACAAGTTGGTTCTGCGCTACCCCCACCTCCCATGTTTACAAGT
CGGACAGGAGCAGAAACACACCTACCTTCCCCTGGAGGTCTGTAACATTGTGGCAGGACAAA
GATGTATTAATAAATTAACGGACAATCAGACCTCAACCATGATCAGAGCAACTGCTAGGTCG
GCGCCCGATCGGCAAGAAGAGATTAGCAAATTTGATGCGAAGTGCAGTTTCAACACAGATCC
ATACGTCCGTGAATTTGGAATCATGGTCAAAGATGAGATGACAGACGTGACTGGGCGGGTGC
TGCAGCCGCCCTCCATCCTCTACGGGGGCAGGAATAAAGCTATTGCGACCCCTGTCCAGGGC
GTCTGGGACATGCGGAACAAGCAGTTCCACACGGGCATCGAGATCAAGGTGTGGGCCATTGC
GTGCTTCGCCCCCAGCGCCAGTGCACGGAAGTCCATCTGAAGTCCTTACAGAGCAGCTCA
GAAAGATCTCGAGAGACGCTGGCATGCCATCCAGGGCCAGCCGTGCTTCTGCAATACGCG
CAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCACCTGAAGAACACGTATGCGGGCCTGCA
GCTGGTGGTGGTCATCCTGCCCAGCAAGACGCCCGTGTACGCCGAGGTCAAGCGCGTGGGAG
ACACGGTGCTGGGGATGGCCACGCAGTGCCTGTCAGATGAAGAACGTGCAGAGGACCACGCCA
CAGACCCTGTCCAACCTTTGCCTGAAGATCAACGTCAAGCTGGGAGGCGTGAACAACATCCT
GCTGCCCCAGGGCAGGCCGCCGGTGTTCAGCAGCCCGTCATCTTCTGGGAGCAGACGTCA
CTACCCCCCCCCCGGGGATGGGAAGAAGCCCTCCATTGCCGCCGTGGTGGGCAGCATGGAC
GCCCACCCCAATCGCTACTGCGCCACCGTGCCTGTCAGCAGCACCAGGAGATCATACA
AGACCTGGCCGCCATGGTCCGCGAGCTCCTCATCCAGTTCTACAAGTCCACGCGCTTCAAGC
CCACCCGCATCATCTTCTACCGCGACGGTGTCTCTGAAGGCCAGTTCCAGCAGGTTCTCCAC
CACGAGTTGCTGGCCATCCGTGAGGCCTGTATCAAGCTAGAAAAAGACTACCAGCCCGGGAT
CACCTTCATCGTGGTGCAGAAGAGGCACCACACCCGGCTCTTCTGCACTGACAAGAACGAGC
GGGTTGGGAAAAGTGGAAACATTCCAGCAGGCACGACTGTGGACACGAAAATCACCCACCCC
ACCGAGTTCGACTTCTACCTGTGTAGTCAAGCTGGCATCCAGGGGACAAGCAGGCCTTCGCA
CTATCACGTCTCTGGGACGACAATCGTTTCTCCTCTGATGAGCTGCAGATCCTAACCTACC
AGCTGTGTACACCTACGTGCGCTGCACACGCTCCGTGTCCATCCAGCGCCAGCATACCTAC
GCTCACCTGGTGGCCTTCCGGGCCAGGTACCACCTGGTGGATAAGGAACATGACAGTGTGA
AGGAAGCCATACCTCTGGGCAGAGTAACGGGCGAGACCACCAAGCACTGGCCAAGGCGGTCC
AGGTTACCAAGACACTCTGCGCACCATGTACTTTTGCT

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Martinez et al. Figure 16

>eIF2C4, cDNA sequence of predicted ORF
GCAGGACCCGCTGGGGCCCAGCCCCCTACTCATGGTGCCAGAACCTGGCTATGGCACCAT
GGGCAAACCCATTAAACTGCTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCT
ACCTCTATGAGGTAGATATTAAACCAGACAAGTGTCCCTAGGAGAGTGAACAGGGAGGTGGTT
GACTCAATGGTTTCAGCATTTTAAAGTAACTATATTTGGAGACCGTAGACCAGTTTATGATGG
AAAAAGAAGTCTTTACACCGCCAATCCACTTCCTGTGGCAACTACAGGGGTAGATTTAGACG
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CGGGTGAGTTGGCACCTACTGCATGAAGTACTGACAGGACGGACCTTGCCTGAGCCACTGGA
ATTAGACAAGCCAATCAGCACTAACCTGTCCATGCCGTTGATGTGGTGCTACGACATCTGC
CCTCCATGAAATACACACCTGTGGGGCGTTCATTTTTCTCCGCTCCAGAAGGATATGACCAC
CCTCTGGGAGGGGGCAGGGAAGTGTGGTTTGGATTCCATCAGTCTGTTTCGGCCTGCCATGTG
GAAAAATGATGCTTAATATCGATGTTTCTGCCACTGCCCTTCTACAAAGCACAACTGTAATTC
AGTTCATGTGTGAAGTTCTTGATATTCATAATATTGATGAGCAACCAAGACCTCTGACTGAT
TCTCATCGGGTAAAATTCACCAAAGAGATAAAAAGGTTTGAAGGTTGAAGTGAAGTCAATTGTGG
AACAATGAGACGGAAATACCGTGTGTAATGTAACAAGGAGGCCTGCCAGTCATCAAACCT
TTCTTTTACAGTTAGAAAACGGCCAAACTGTGGAGAGAACAGTAGCGCAGTATTTTCAGAGAA
AAGTATACTCTTCAGCTGAAGTACCCGCACCTTCCCTGTCTGCAAGTCGGGCAGGAACAGAA
ACACACCTACCTGCCACTAGAAGTCTGTAATATTGTGGCAGGGCAACGATGTATCAAGAAGC
TAACAGACAAATCAGACTTCCACTATGATCAAGGCAACAGCAAGATCTGCACCAGATAGACAA
GAGGAAATTAGCAGATTGGTAAGAAGTGCAAAATTATGAAACAGATCCATTTGTTTCAGGAGTT
TCAATTTAAAGTTCGGGATGAAATGGCTCATGTAAGTGGACGCGTACTTCCAGCACCTATGC
TCCAGTATGGAGGACGGAATCGGACAGTAGCAACACCGAGCCATGGAGTATGGGACATGCGA
GGGAAACAATTCCACACAGGAGTTGAAATCAAAATGTGGGCTATCGCTTGTGTTTTCACACACA
GAGGCAGTGCAGAGAAGAAATATTGAAGGGTTTCACAGACCAGCTGCGTAAGATTTCTAAGG
ATGCAGGGATGCCCATCCAGGGCCAGCCATGCTTCTGCAAAATATGCACAGGGGGCAGACAGC
GTAGAGCCCATGTTCCGGCATCTCAAGAACACATATTCTGGCCTACAGCTTATTATCGTCAT
CCTGCCCGGGGAAGACACCAGTGTATGCGGAAGTGAAACGTGTAGGAGACACACTTTTGGGTA
TGGCTACACAATGTGTTCAAGTCAAGAATGTAATAAAAAACATCTCCTCAAACCTCTGTCAAAC
TTGTGCCTAAAGATAAATGTTAAACTCGGAGGGATCAATAATATTCTTGTACCTCATCAAAG
ACCTTCTGTGTTCCAGCAACCAGTGATCTTTTTTGGGAGCCGATGTCACTCATCCACCTGCTG
GTGATGGAAAGAAGCCTTCTATTGCTGCTGTTGTAGGTAGTATGGATGCACACCCAAGCAGA
TACTGTGCCACAGTAAGAGTTTCAGAGACCCCGACAGGAGATCATCCAGGACTTGGCCTCCAT
GGTCCGGGAACCTTCTTATTCAATTTTATAAGTCAACTCGGTTCAAGCCTACTCGTATCATCT
TTTATCGGGATGGTGTGTTTCAGAGGGGCAGTTTAGGCAGGTATTATATTATGAACCTACTAGCA
ATTTCGAGAAGCCTGCATCAGTTTGGAGAAAGACTATCAACCTGGAATAACCTACATTGTAGT
TCAGAAGAGACATCACACTCGATTATTTTGTGCTGATAGGACAGAAAGGGTTGGAAGAAGTG
GCAATATCCCAGCTGGAACAACAGTTGATACAGACATTACACACCCATATGAGTTTCGATTTT
TACCTCTGTAGCCATGCTGGAATACAGGGTACCAGTCGTCCCTCACACTATCATGTTTTATG
GGATGATAACTGCTTTACTGCAGATGAAGTTTCAGCTGCTAACTTACCAGCTCTGCCACACTT
ACGTACGCTGTACACGATCTGTTTCTATACCTGCACCAGCGTATTATGCTCACCTGGTAGCA
TTTAGAGCCAGATATCATCTTGTGGACAAAGAACATGACAGTGTGAAGGAAGTCACGTTTC
AGGACAAAGCAATGGGCGAGATCCACAAGCTCTTGCCAAGGCTGTACAGATTACCAAGATA
CCTTACGCACAATGTACTTCGCTTAA

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Martinez et al. Figure 16

>HILI, cDNA sequence of predicted ORF
ATATCTTCTGGTGATGCTGGAAGTACCTTCATGGAAAGAGGTGTGAAAAACAAACAGGACTT
TATGGATTTGAGTATCTGTACCAGAGAAAAATTGGCACATGTGAGAAATTGTAAAAACAGGTT
CCAGTGGAATACCTGTGAAACTGGTTACAAACCTCTTTAACTTAGATTTTCCCCAAGACTGG
CAGCTATACCAGTACCATGTGACATATATTCAGATTTAGCATCTAGAAGGCTGAGAATTGC
TTTACTTTTATAGTCATAGTGAACCTTCCAACAAAGCAAAGCATTTCGACGGTGCCATCCTTT
TTCTGTCACAAAAGCTAGAAGAAAAGGTCACAGAGTTGTCAAGTGAAACTCAAAGAGGTGAG
ACTATAAAGATGACTATCACCTGAAGAGGGAGCTGCCATCAAGTTCTCCCGTGTGCATCCA
GGTCTTCAATATCATCTTCAGAAAGATCCTCAAAAAGTTGTCCATGTACCAAATTGGACGGGA
ACTTCTATAATCCTTCAGAGCCAATGGAAATTCCCCAGCACAAATTATCCCTTTGGCCTGGG
TTTGCCATTTCTGTGTCATATTTTGAAAGGAAGCTCCTGTTTAGTGCTGATGTGAGTTACAA
AGTCCTCCGGAATGAGACGGTTCTGGAATTCATGACTGCTCTCTGTCAAAGAAGTGGCTTGT
CCTGTTTCACCCAGACGTGTGAGAAGCAGCTAATAGGGCTCATTTGTCTTACAAGATACAAT
AACAGAACCTACTCCATTGATGACATTGACTGGTCAGTGAAGCCACACACACCTTTTCAGAA
GCGGGATGGCACCAGATCACCTATGTGGATTACTACAAGCAGCAGTATGATATTACTGTAT
CGGACCTGAATCAGCCCATGCTTGTTAGTCTGTTAAAGAAGAAGAGAAATGACAACAGTGAG
GCTCAGCTCGCCACCTGATACCTGAGCTCTGCTTTCTAACAGGGCTGACTGACCAGGCAAC
ATCTGATTTCCAGCTGATGAAGGCTGTGGCTGAAAAGACACGTCTCAGTCCTTCAGGCCGGC
AGCAGCGCCTGGCCAGGCTTGTGGACAACATCCAGAGGAATACCAATGCTCGCTTTGAACCTA
GAGACCTGGGGACTGCATTTTGAAGCCAGATATCTCTGACTGGCCGGATTGTGCCTTCAGA
AAAAATATTAATGCAAGACCACATATGTCAACCTGTGTCTGCTGCTGACTGGTCCAAGGATA
TTCGAACCTGCAAGATTTTAAATGCACAGTCTTTGAATACCTGGTTGATTTTATGTAGCGAC
AGAACTGAATATGTTGCCGAGAGCTTTCTGAACTGCTTGAGAAGAGTTGCAGGTTCCATGGG
ATTTAATGTAATGTGCATTTCTGCCTTCTAATCAGAAGACCTATTATGATTCCATTAAAAAAT
ATTTGAGCTCAGACTGCCAGTCCCAAGCCAATGTGTGCTTGCTCGGACCTTGAATAAACAG
GGCATGATGATGAGTATCGCCACCAAGATCGCTATGCAGATGACTTGCAAGCTCGGAGGCGA
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ATGCACTCAGCAAGGACGTGATGGTTGTTGGATGCGTGGCCAGTGTTAACCCAGAATCACC
AGGTGGTTTTTCCCGCTGTATCCTTCAGAGAACAATGACTGATGTTGCAGATTGCTTGAAAGT
TTTCATGACTGGAGCACTCAACAAATGGTACAAGTACAATCATGATTTGCCAGCACGGATAA
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CAGCTGCTGAGCAGTGTGGCAGAATCCAGCTCAAATACCAGCTCAAGACTGTCGGTGATTGT
GGTCAGGAAGAAGTGCATGCCACGATTCCTTACCAGAAATGAACCGCACTGTACAGAACCCCC
CACTTGGCACTGTTGTGGATTTCAGAAGCAACACGTAACGAATGGCAGTATGACTTTTATCTG
ATCAGCCAGGTGGCCTGCCGGGGAAGTGTAGTCTACCTACTATAATGTCATCTATGATGA
CAACGGCTTGAAGCCCGACCATATGCAGAGACTTACATTCAAATTGTGCCACCTGTACTACA
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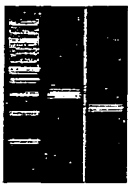
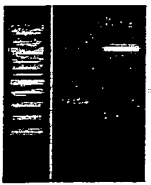


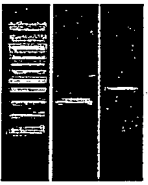
>HIWI, cDNA sequence of predicted ORF
ATGACTGGGAGAGCCCGAGCCAGAGCCAGAGGAAGGGCCCGGGTCAGGAGACAGCGCAGCT
GGTGGGCTCCACTGCCAGTCAGCAACCTGGTTATATTACGCTAGGCCTCAGCCGCCACCAG
CAGAGGGGGAATTATTTGGCCGTGGACGGCAGAGAGGAACAGCAGGAGGAACAGCCAAGTCA
CAAGGACTCCAGATATCTGCTGGATTTTCAGGAGTTATCGTTAGCAGAGAGAGGAGTCTGTCG
TAGAGATTTTCATGATCTTGGTGTGAATACAAGGCAGAACCTAGACCATGTTAAAGAATCAA
AAACAGGTTCTTCAGGCATTATAGTAAGGTTAAGCACTAACCATTTCCGGCTGACATCCCGT
CCCCAGTGGGCCTTATATCAGTATCACATTGACTATAACCCACTGATGGAAGCCAGAAGACT
CCGTTTCAGCTCTTCTTTTCAACACGAAGATCTAATTGGAAAGTGCCATGCTTTTGATGGAA
CGATATTATTTTACCTAAAAGACTACAGCAAAAGGTTACTGAAGTTTTTAGTAAGACCCGG
AATGGAGAGGATGTGAGGATAACGATCACTTTAACAATGAACCTCCACCTACATACCAAC
TTGTTTGCAGTTCTATAATATTATTTTCAGGAGGCTTTTGAAAATCATGAATTTGCAACAAA
TTGGACGAAATTATTATAACCCAAATGACCCAATTGATATTCCAAGTCACAGGTTGGTGATT
TGGCCTGGCTTCACTACTTCCATCCTTCAGTATGAAAACAGCATCATGCTCTGCACTGACGT
TAGCCATAAAGTCCTTCGAAGTGAGACTGTTTTGGATTTTCATGTTCAACTTTTATCATCAGA
CAGAAGAACATAAATTTCAAGAACAAGTTTCCAAAGAACTAATAGGTTTAGTTGTTCTTACC
AAGTATAACAATAAGACATACAGAGTGGATGATATTGACTGGGACCAGAATCCCAAGAGCAC
CTTTAAGAAAGCCGACGGCTCTGAAGTCAGCTTCTTAGAATACTACAGGAAGCAATACAACC
AAGAGATCACCGACTTGAAGCAGCCTGTCTTGGTTCAGCCAGCCCAAGAGAAGGCGGGCCCT
GGGGGGACACTGCCAGGGCCTGCCATGCTCATTCCTGAGCTCTGCTATCTTACAGGTCTAAC
TGATAAAATGCGTAATGATTTTAACGTGATGAAAGACTTAGCCGTTTCATACAAGACTAACTC
CAGAGCAAAGGCAGCGTGAAGTGGGACGACTCATTGATTACATTCATAAAAACGATAATGTT
CAAAGGGAGCTTCGAGACTGGGGTTTGAGCTTTGATTCCAACCTACTGTCCTTCTCAGGAAG
AATTTTGCAAACAGAAAAGATTACCAAGGTGGAAAAACATTTGATTACAATCCACAATTTG
CAGATTGGTCCAAAGAAACAAGAGGTGCACCATTAATTAGTGTTAAGCCACTAGATAACTGG
CTGTTGATCTATACGCGAAGAAATTATGAAGCAGCCCAATTCATTGATACAAAATCTATTTAA
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TTGCTACAAAGATTGCCCTACAGATGAACTGCAAGATGGGAGGAGAGCTCTGGAGGGTGGAC
ATCCCCCTGAAGCTCGTGATGATCGTTGGCATCGATTGTTACCATGACATGACAGCTGGGCG
GAGGTCAATCGCAGGATTTGTTGCCAGCATCAATGAAGGGATGACCCGCTGGTTCTCACGCT
GCATATTTTCAGGATAGAGGACAGGAGCTGGTAGATGGGCTCAAAGTCTGCCTGCAAGCGGCT
CTGAGGGCTTGGAATAGCTGCAATGAGTACATGCCAGCCGGATCATCGTGTACCGCGATGG
CGTAGGAGACGGCCAGCTGAAAACACTGGTGAACACGAAGTGCCACAGTTTTTGGATTGTC
TAAAATCCATTGGTAGAGGTTACAACCCTAGACTAACGGTAATTGTGGTGAAGAAAAGAGTG
AACACCAGATTTTTTGGCTCAGTCTGGAGGAAGACTTCAGAATCCACTTCCTGGAACAGTTAT
TGATGTAGAGGTTACCAGACCAGAATGGTATGACTTTTTTATCGTGAGCCAGGCTGTGAGAA
GTGGTAGTGTTTCTCCACACATTACAATGTCATCTATGACAACAGCGGCTGAAGCCAGAC
CACATACAGCGCTTGACCTACAAGCTGTGCCACATCTATTACAACCTGGCCAGGTGTCATTCTG
TGTTCTGCTCCTTGCCAGTACGCCCACAAGCTGGCTTTTCTTGTGGCCAGAGTATTCACA
GAGAGCCAAATCTGTCACTGTCAAACCGCCTTTACTACCTC

A

Gene name	1 st primer pair (5'-3')	2 nd primer pair (5'-3')	Expected length (bp)
eIF2C1	GAGGTCTGTAACATTGTGGC*	GAGGTCTGTAACATTGTGGC*	287
	CGGTAGAAGATGATGCGGGT	AAGTTCTTGAGCACCTCTTCTCGA	
	GAGGTCTGTAACATTGTGGC	CCACACCAGCGCTCTGCC	207
	CGGTAGAAGATGATGCGGGT	CTCACGCACCATGTAGGA	
eIF2C2	GAGGTCTGTAACATTGTGGC	ATCCTGCTGCCCCAAGGG	186
	CGGTAGAAGATGATGCGGGT	GATCTCCTGCCGGTGCTG	
	GAGGTCTGTAACATTGTGGC*	GAGGTCTGTAACATTGTGGC*	891
	CGGTAGAAGATGATGCGGGT	GATCTCCTGCCGGTGCTG	
eIF2C3	AGAGCAACAGTATGGTGGGTGGAC	CCTCTACAGTCAAGAGGT	334
	TGGATGTGTGATGGTACT*	TGGATGTGTGATGGTACT*	
	CACTTGAATGAAGTCCCA	AGAGCAACAGTATGGTGGGTGGAC	808
	TCCTGGATGACCTCTTGACTGTAG*	TCCTGGATGACCTCTTGACTGTAG*	
eIF2C4	TCCGGCATCTCAAGAACACATATTCT	ATCCAGGACTTGGCCTCC	324
	GAACTCATATGGGTGTGTAATGTCTG*	GAACTCATATGGGTGTGTAATGTCTG*	
HILI	CAGCACAAATTATCCCTT*	CAGCACAAATTATCCCTT*	264
	CGGCCTGAAGGACTGAGACGTGT	GTGTGTGGGCTTCACTGA	
	TCTCTGTCAAAGAACTGGCTTGTCTT*	TCTCTGTCAAAGAACTGGCTTGTCTT*	393
	CTGTACAGTGCGGTTTCAT	CGGCCTGAAGGACTGAGACGTGT	

* primers used in both reactions (semi-nested PCR)

B

Gene name	eIF2C1		eIF2C2		eIF2C3		eIF2C4	HILI	
Expected length (bp)	287	207	186	891	808	334	324	264	393
PCR products									

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